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the EMBL outstation - the European Bioinformatics Institute.
The original entry is available from http://www.expasy.ch/sprot
and http://www.ebi.ac.uk/sprot
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[FUNCTION] MEDIATES THE MERCURIC-DEPENDENT INDUCTION OF MERCURY RESISTANCE OPERON. IN THE ABSENCE OF MERCURY MERR REPRESSES TRANSCRIPTION BY BINDING TIGHTLY TO THE MER OPERATOR REGION; WHEN MERCURY IS PRESENT THE DIMERIC COMPLEX BINDS A SINGLE ION AND BECOMES A POTENT TRANSCRIPTIONAL ACTIVATOR, WHILE REMAINING BOUND TO THE MER SITE.

[SIMILARITY] BELONGS TO THE MERR FAMILY OF TRANSCRIPTIONAL REGULATORS.

```
Location/Qualifiers
FEATURES
                     1..144
     source
                     /organism="Shigella flexneri"
                     /plasmid=""
                     /db xref="taxon:623"
                     1..144
                     1..144
     Protein
                     /product="Mercuric resistance operon regulatory protein"
                     10..29
     site
                      /site_type="dna-binding"
                      /note="H-T-H MOTIF (POTENTIAL)."
                      82
     Site
                      /site_type="metal-binding"
                      /note="HG(2+)."
                      117
     Site
                      /site_type="metal-binding"
                      /note="HG(2+)."
                      126
     site
                      /site_type="metal-binding"
                      /note="HG(2+)."
ORIGIN
        1 mennlenlti gvfakaagvn vetirfyqrk gllrepdkpy gsirrygead vvrvkfvksa
       61 qrlgfsldei aellrlddgt hceeasslae hklkdvrekm adlarmetvl selvcachar
      121 kgnvscplia slqgeaglar samp
//
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Revised: October 24, 2001.

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